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Olszewska, Joanna Isabelle

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# Developing and Testing Intelligent Softwares Using D7-R4 Methodology

**Dr Joanna Isabelle Olszewska**

School of Computing and Engineering  
University of West Scotland, UK

## Abstract

- Nowadays, softwares and systems are increasingly relying on Artificial Intelligence (AI). In particular, Intelligent Vision Systems (IVS) are using machine learning and computer vision techniques to process vast amounts of visual data such as images, videos for applications ranging from social media apps to m-health services, from street surveillance cameras to airport e-gates, from drones to companion robots.
- Thus, IVS require effective and ethical data processing along with efficient signal processing and real-time hardware/software integration as well as User Experience (UX) and (cyber)security features.
- Consequently, IVS software development and testing necessitate an adapted software development life-cycle (SDLC) addressing these multi-domain needs, whilst being developer friendly.
- Hence, in this talk, we present the new SDLC called D7-R4 which allows developers to produce quality, new-generation intelligent systems to be deployed safely in real-time and in real-world environments.

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# Thank You

### Contact Details

Dr Joanna Isabelle Olszewska  
[joanna.olszewska@ieee.org](mailto:joanna.olszewska@ieee.org)

School of Computing and Engineering  
University of West of Scotland (UWS)  
United Kingdom